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FIGURE 1  
(Prior Art)

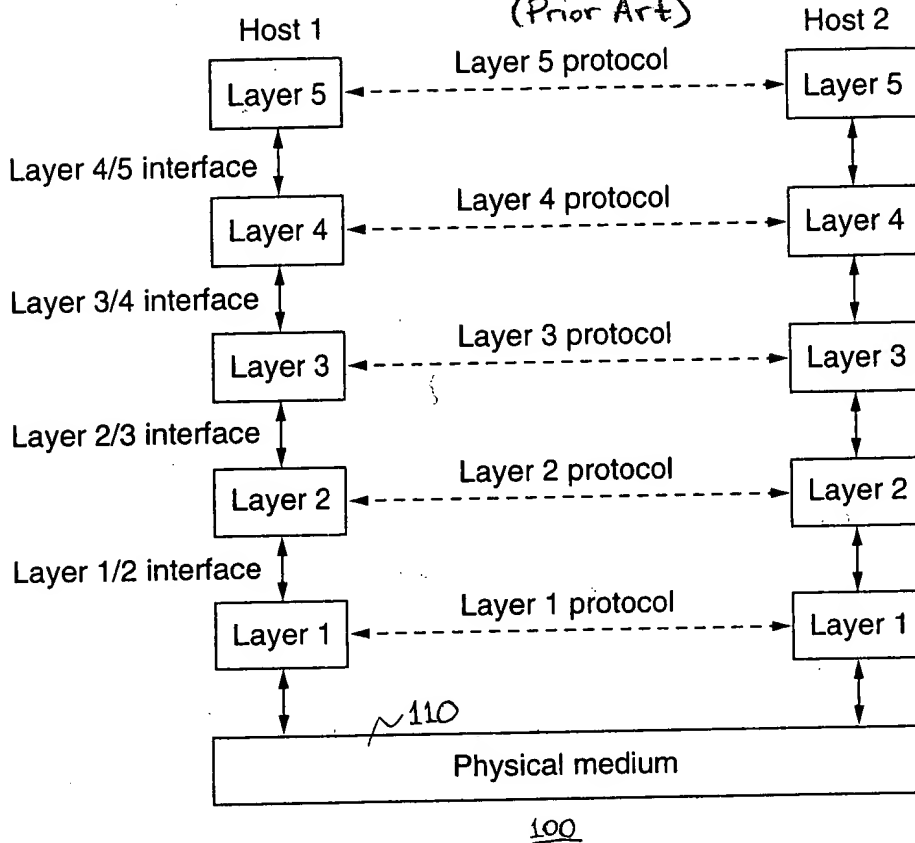


FIGURE 2  
(Prior Art)

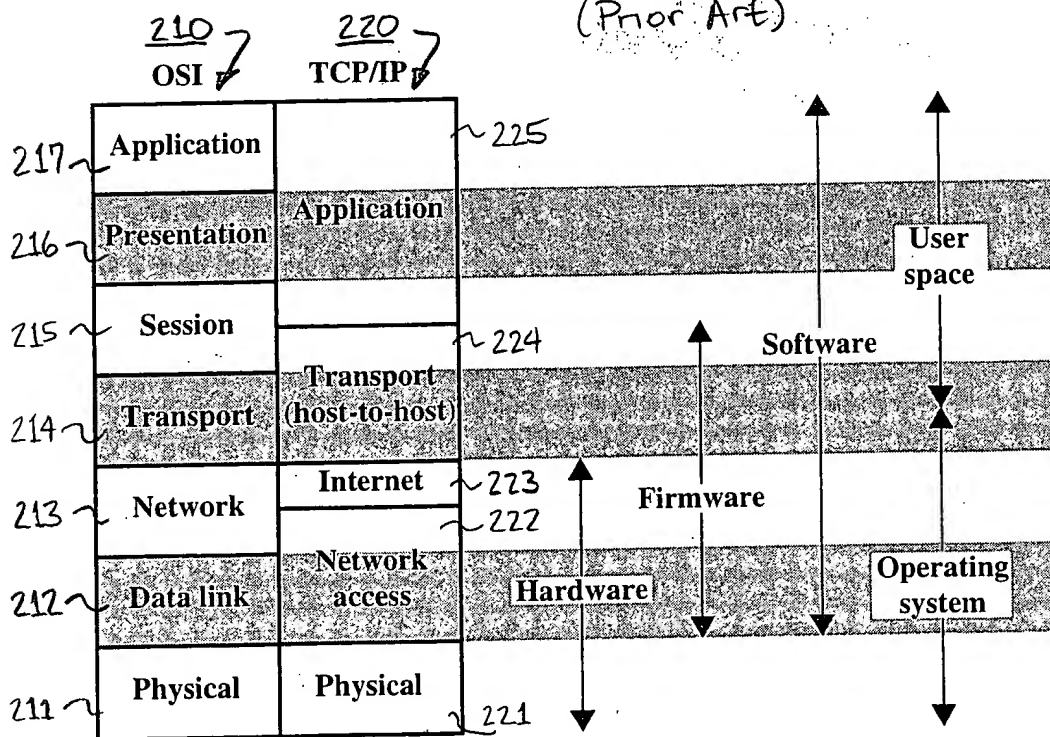
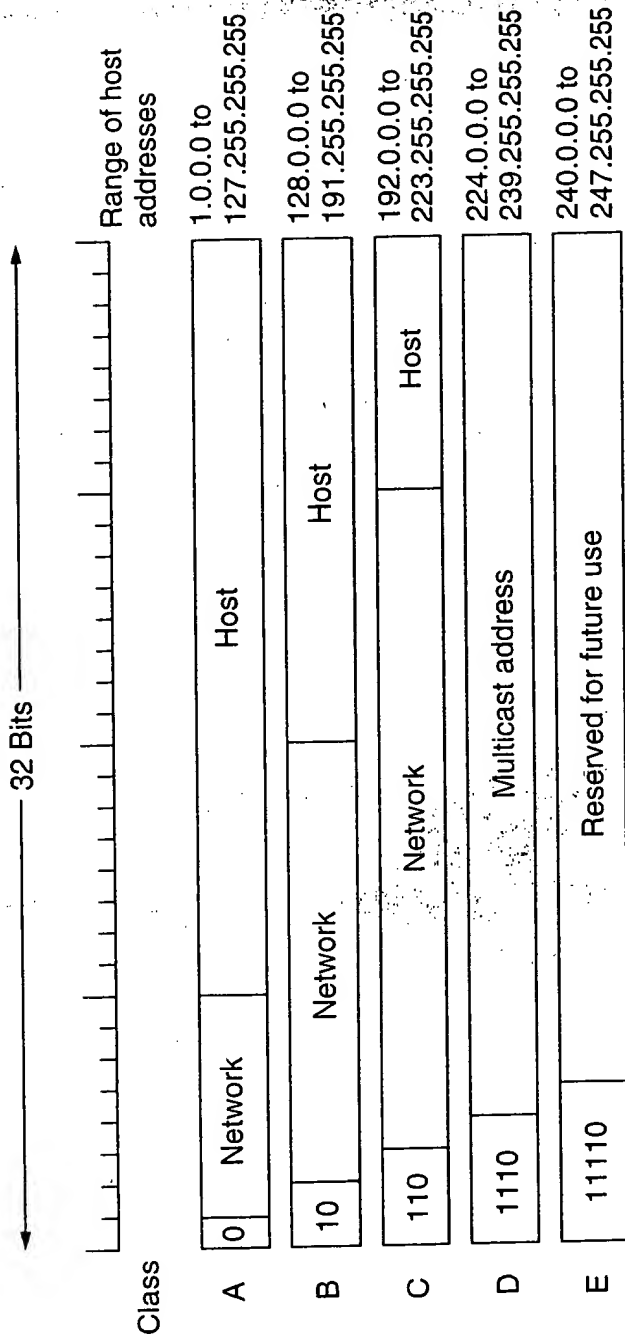


FIGURE 3  
(Prior Art)



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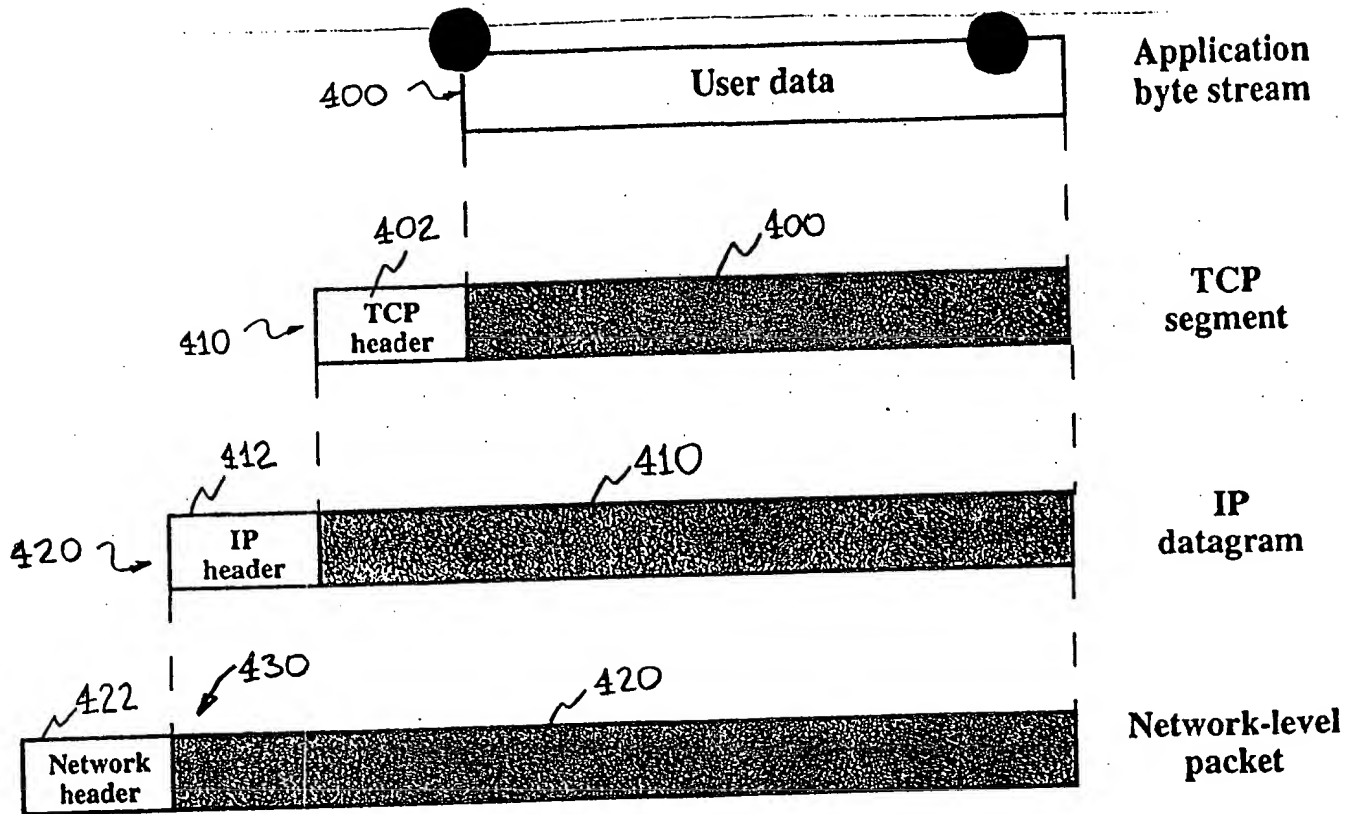
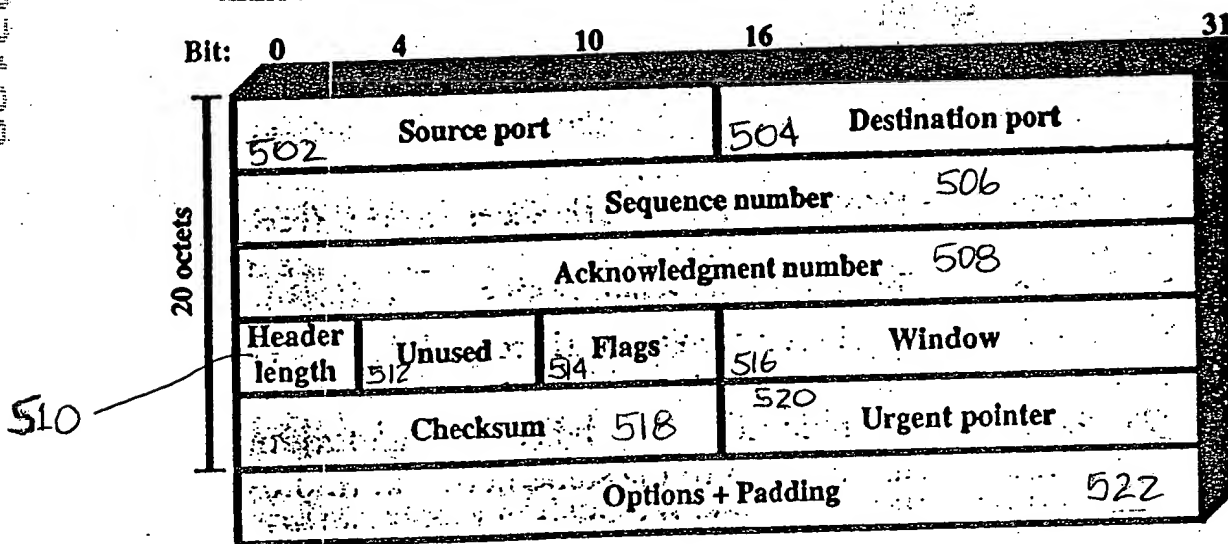


FIGURE 4  
(Prior Art)



402

FIGURE 5  
(Prior Art)



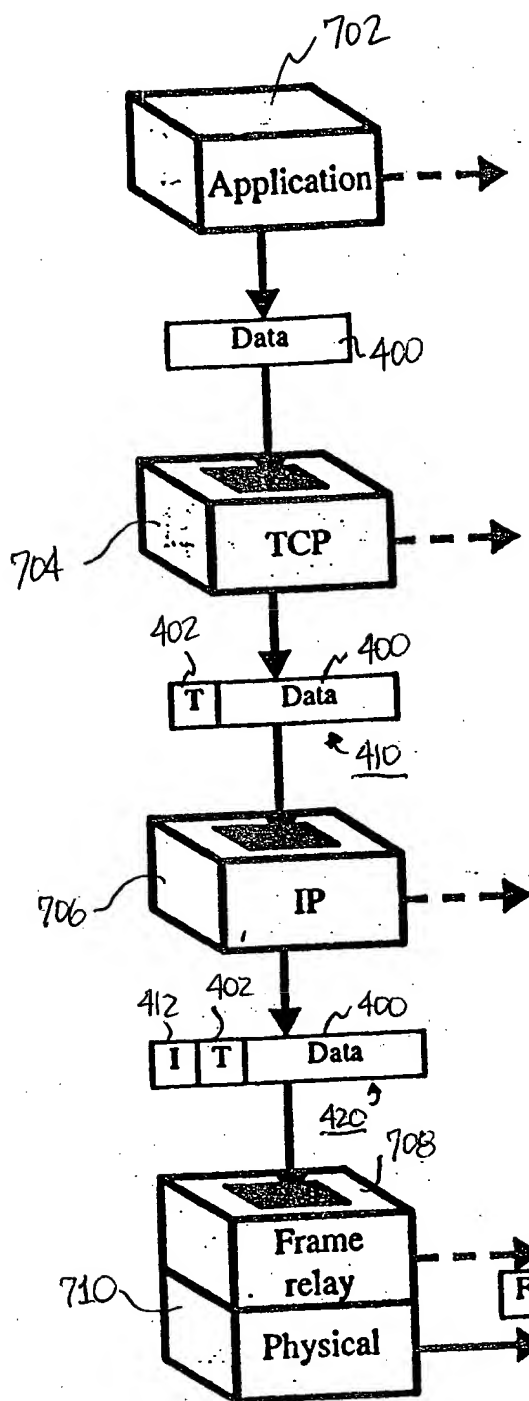


FIGURE 7

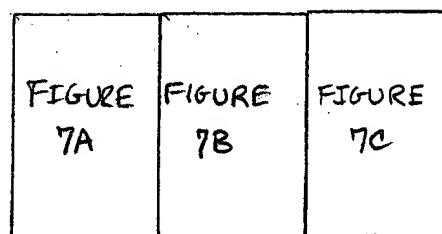
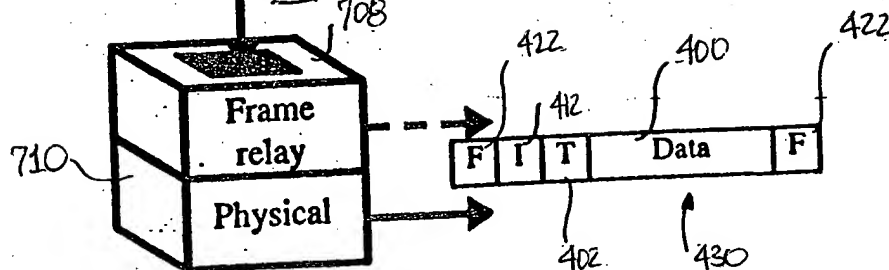


FIGURE 7A  
(Prior Art)



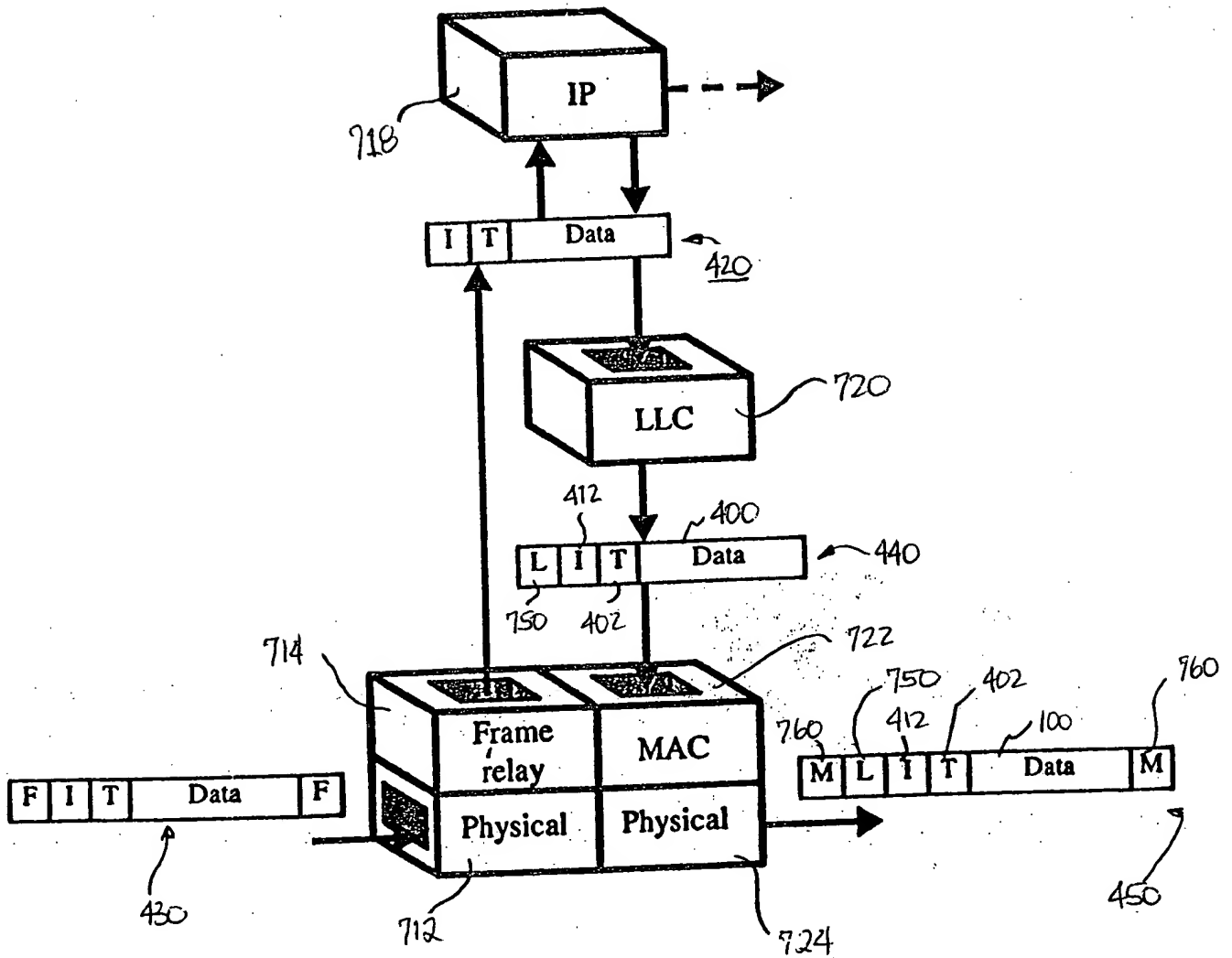
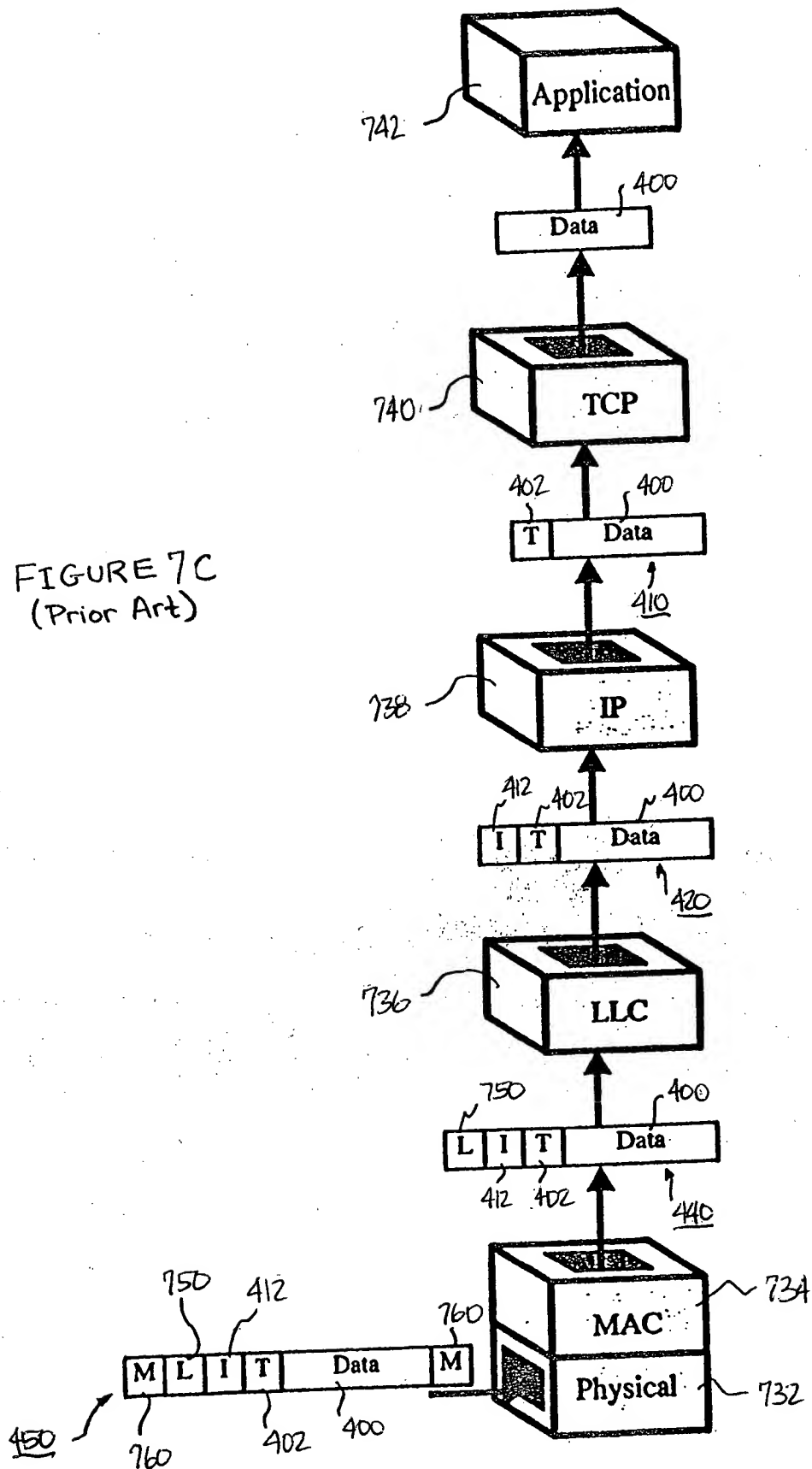


FIGURE 7B

FIGURE 7C  
(Prior Art)



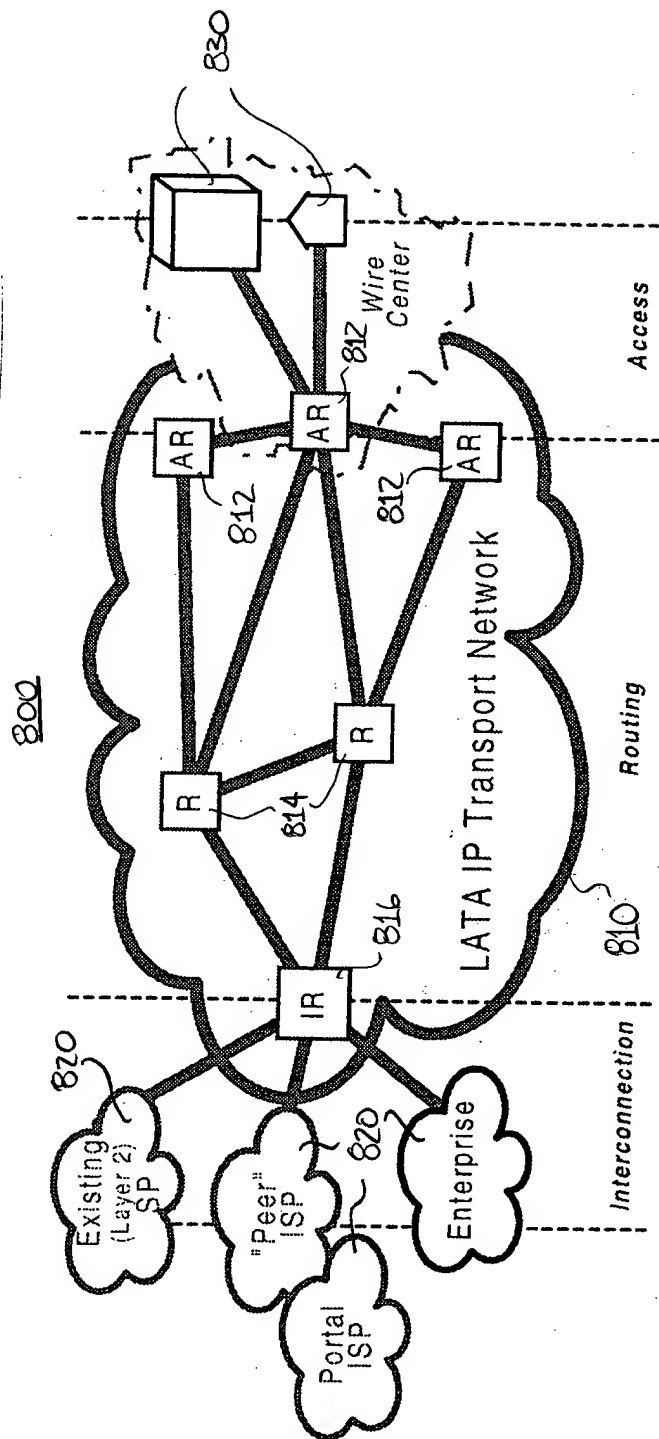
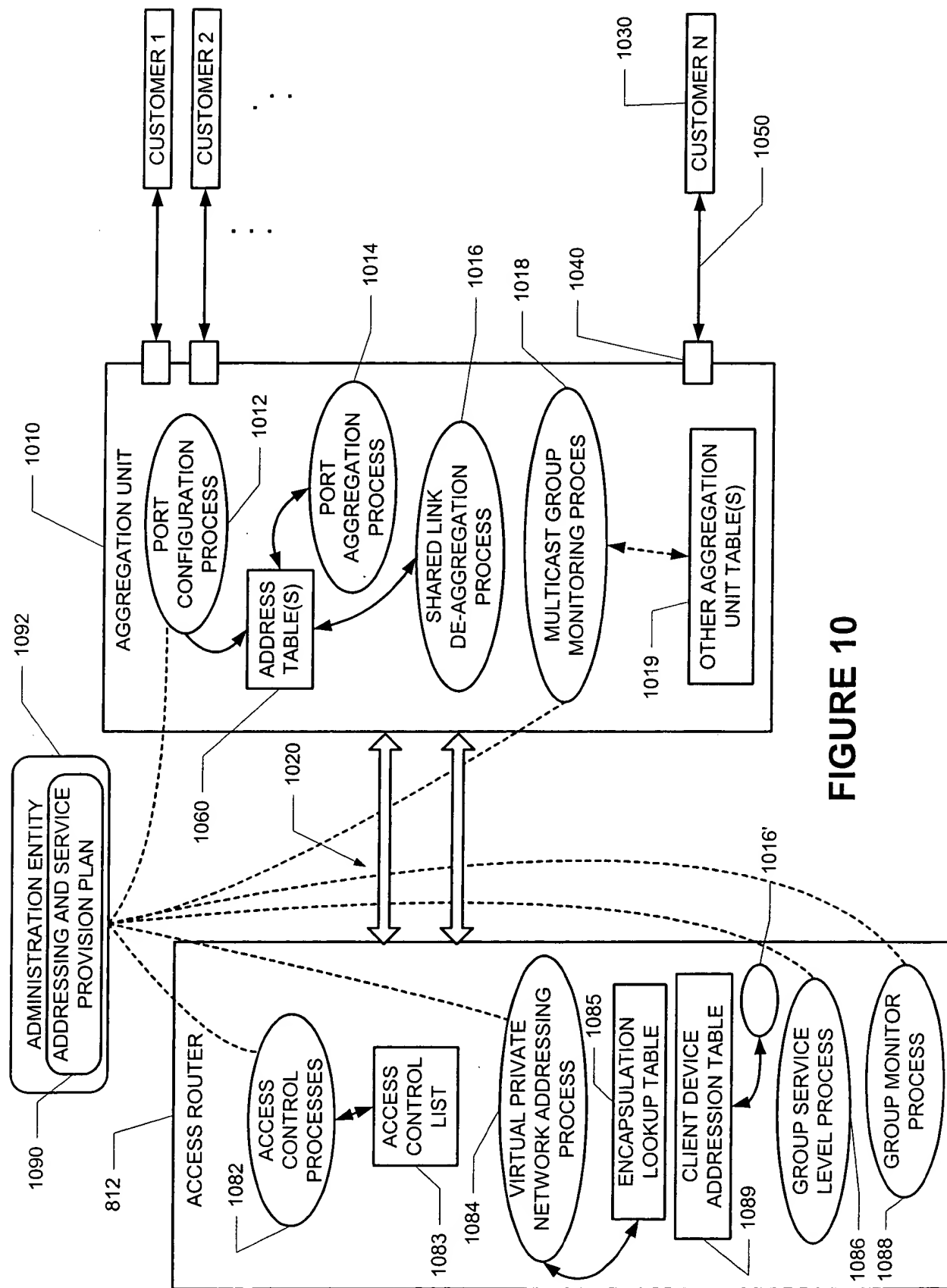


FIGURE 8





**FIGURE 10**

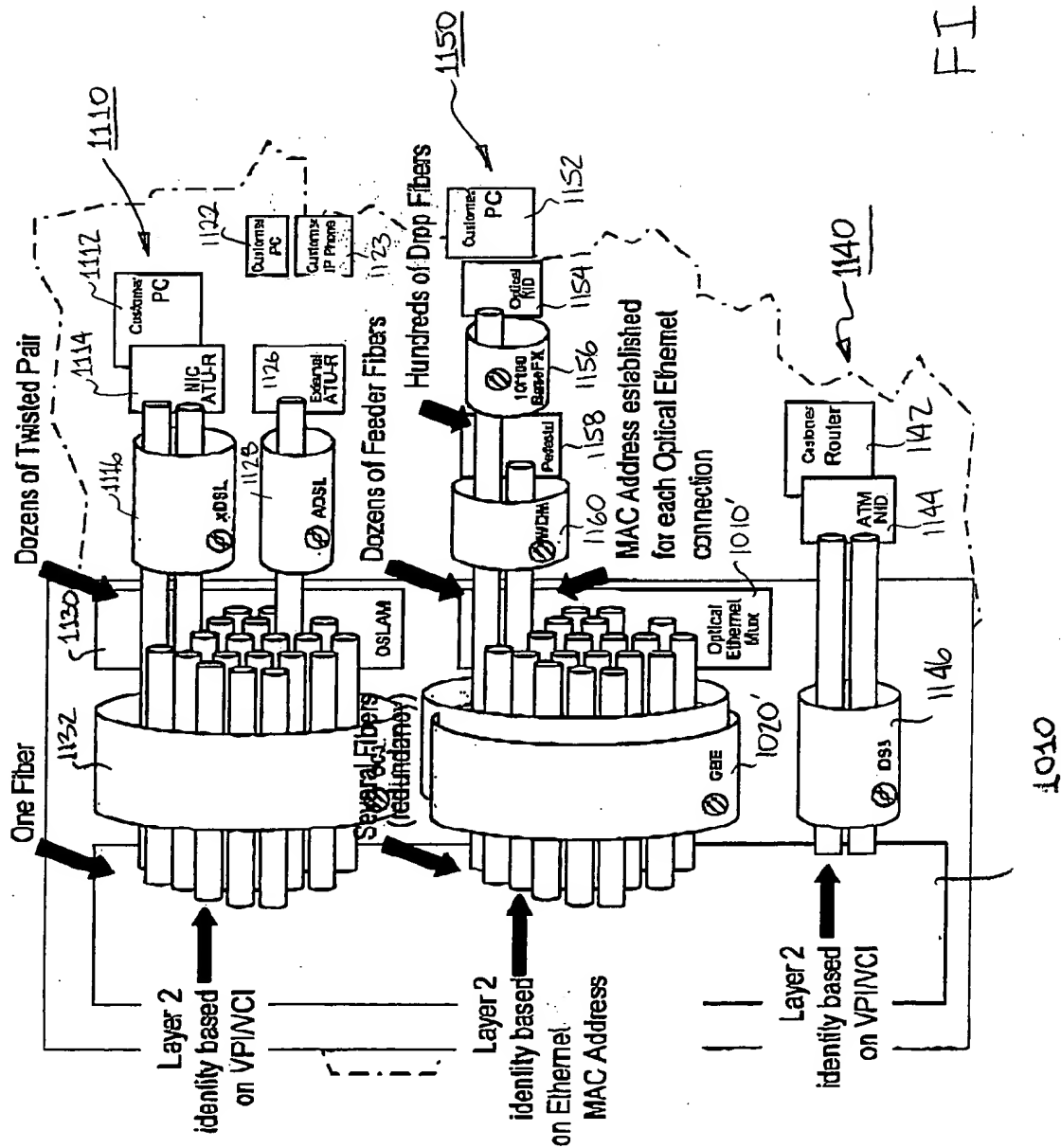


FIGURE 11



FIGURE 13 ADDRESS AND SERVICES MODEL

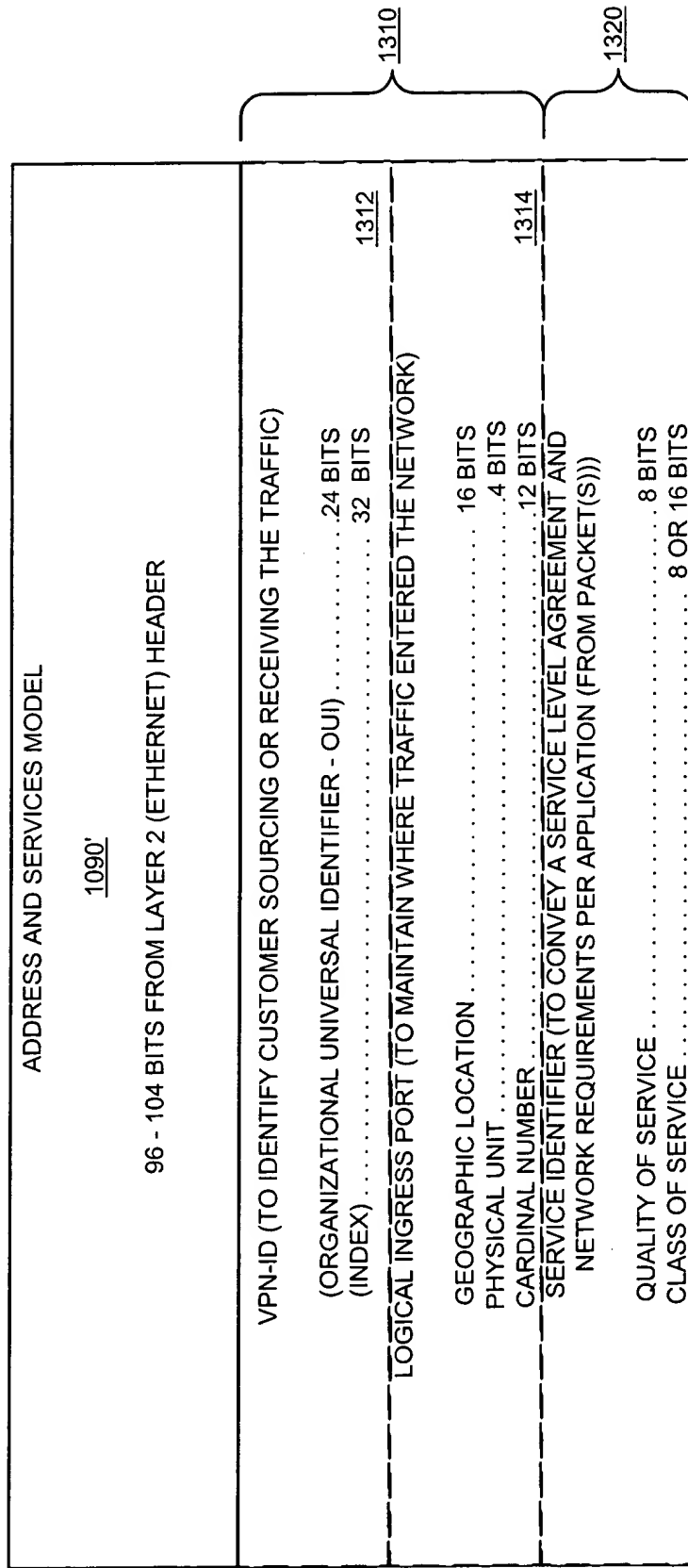


FIGURE 13

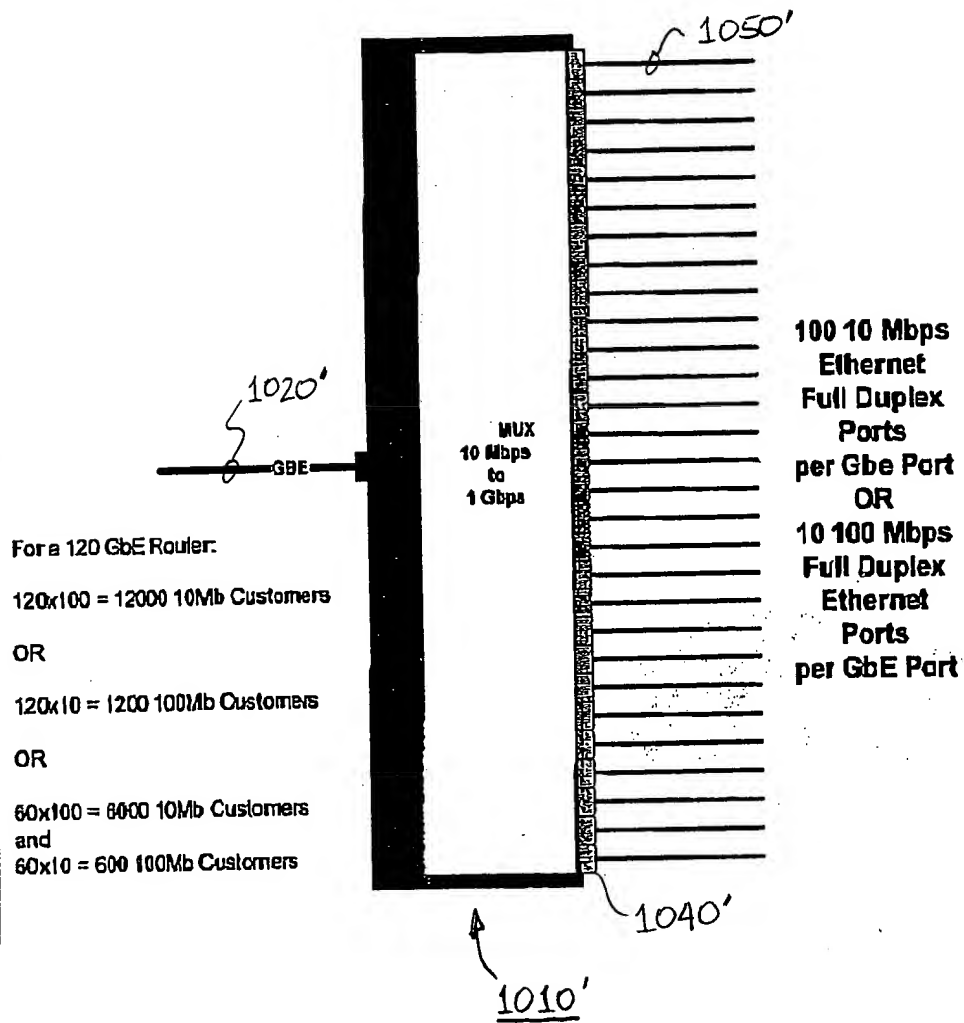
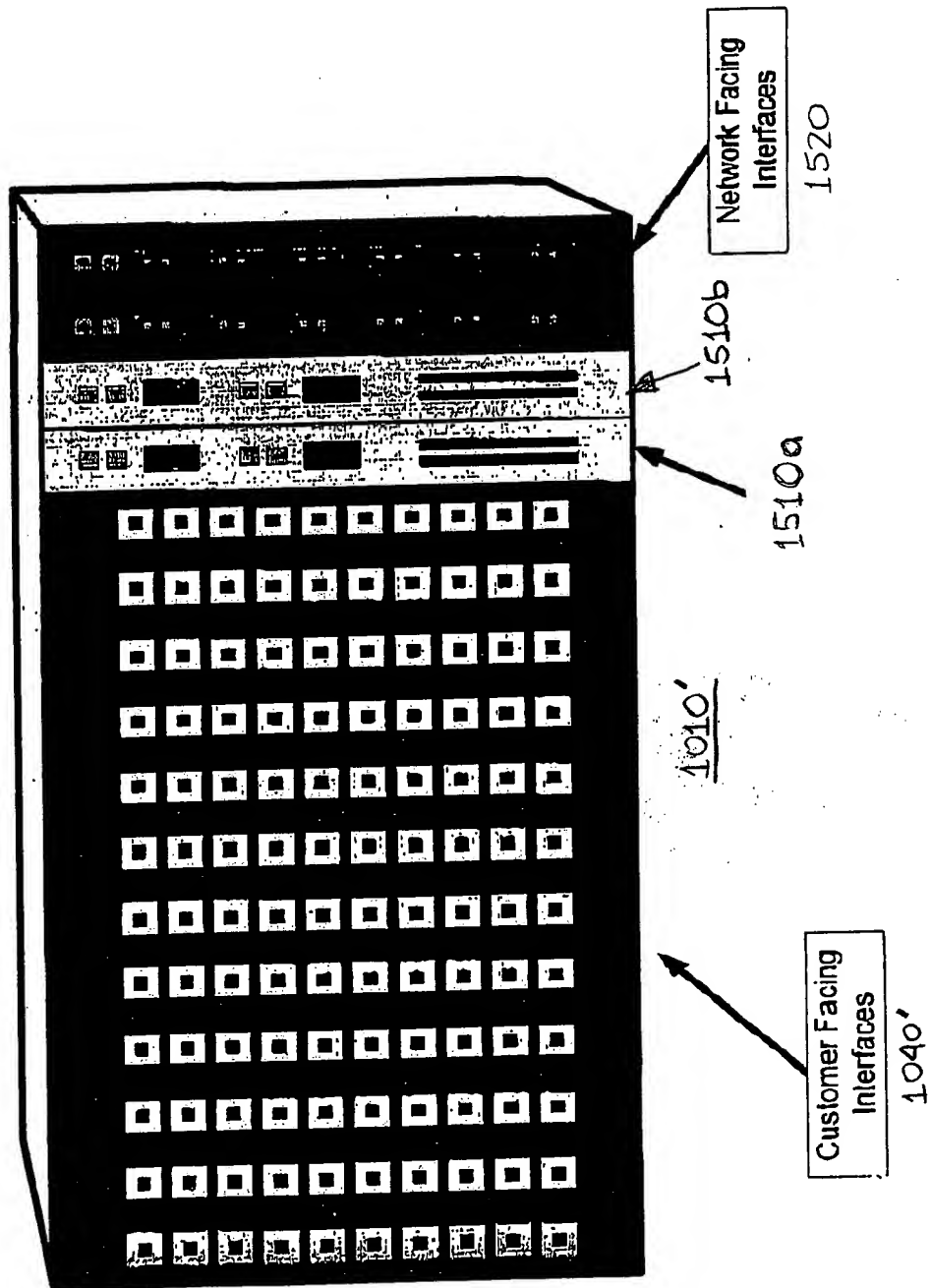


FIGURE 14

FIG. 15

FIGURE 15



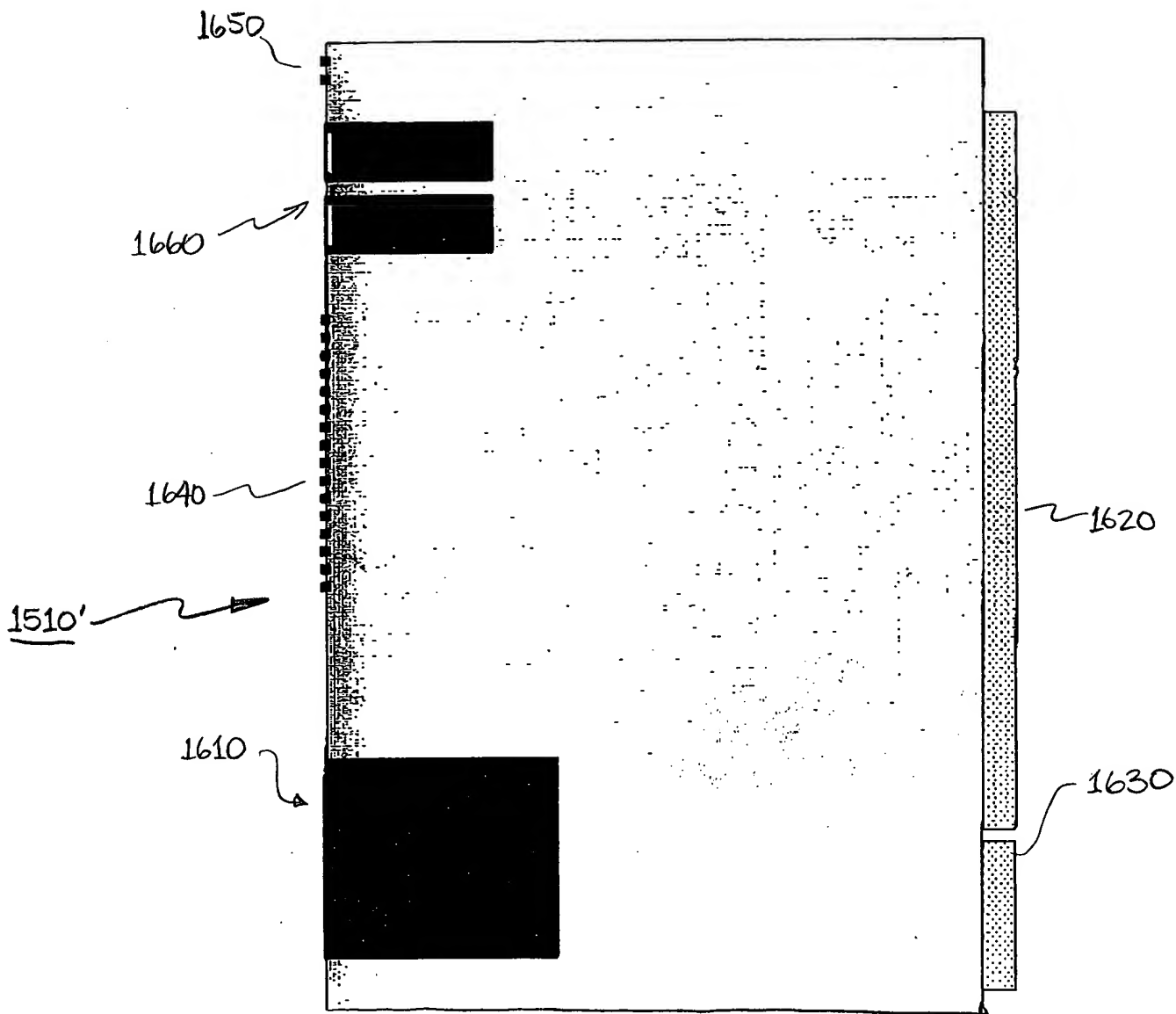


FIGURE 16

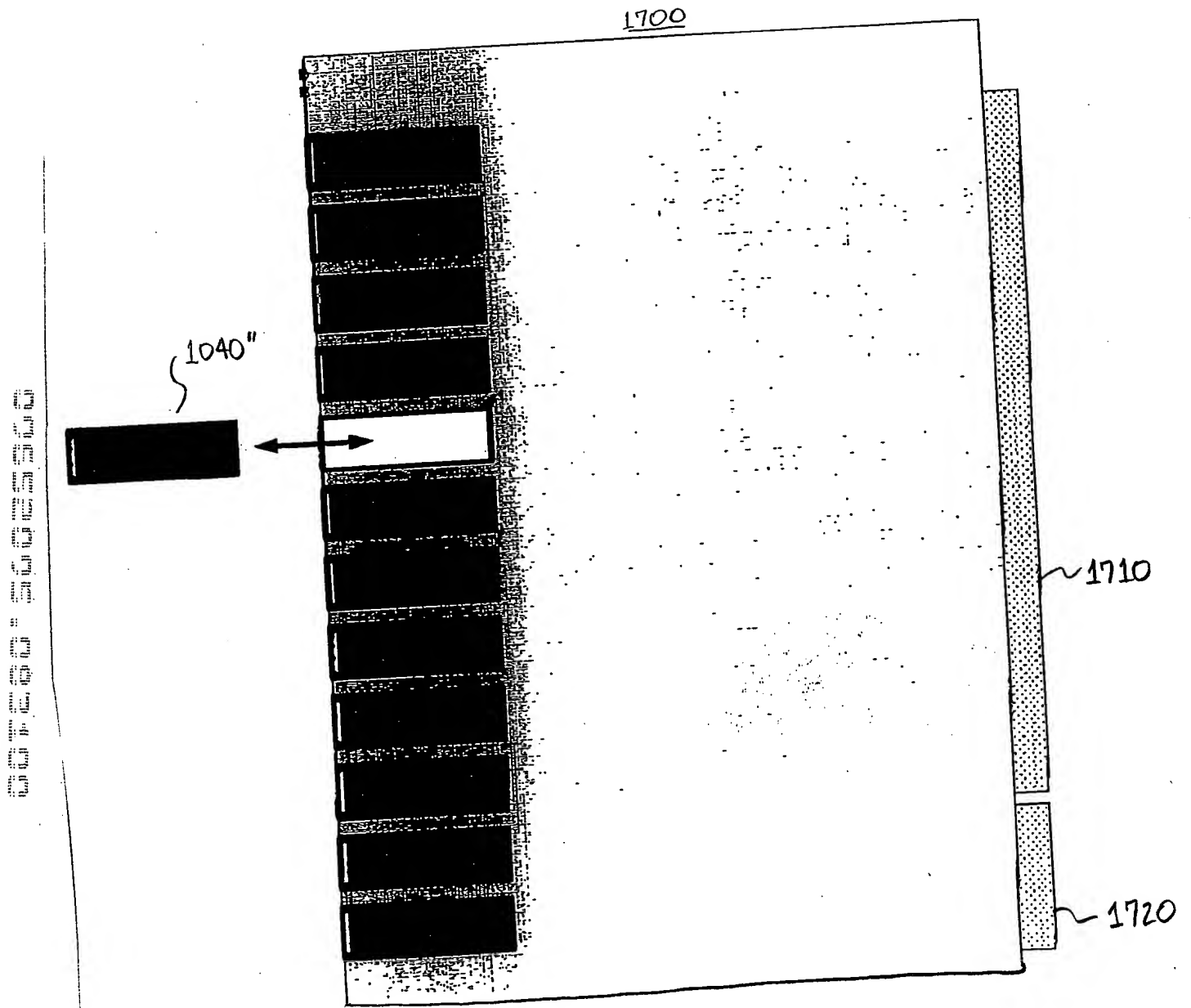


FIGURE 17

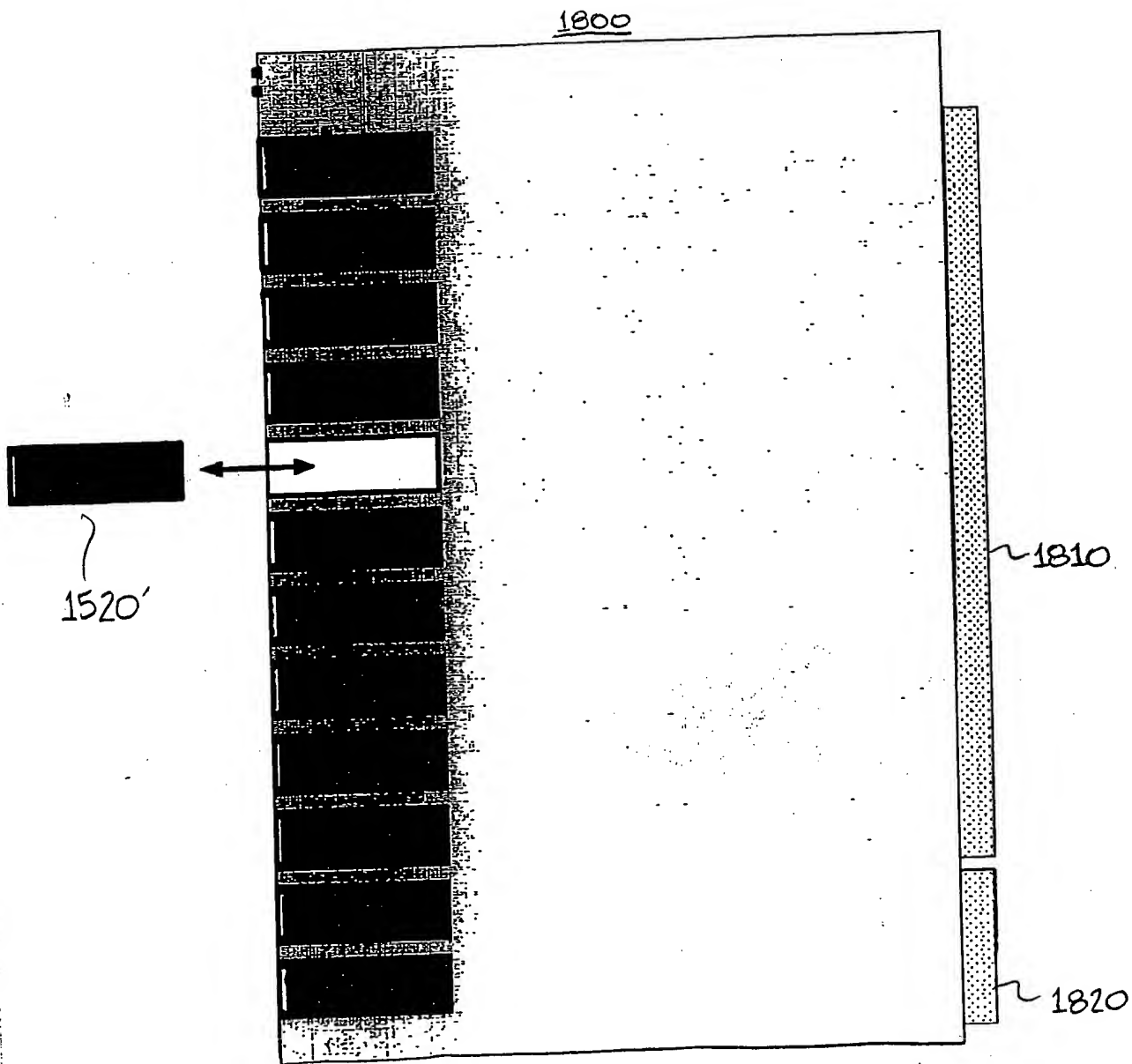
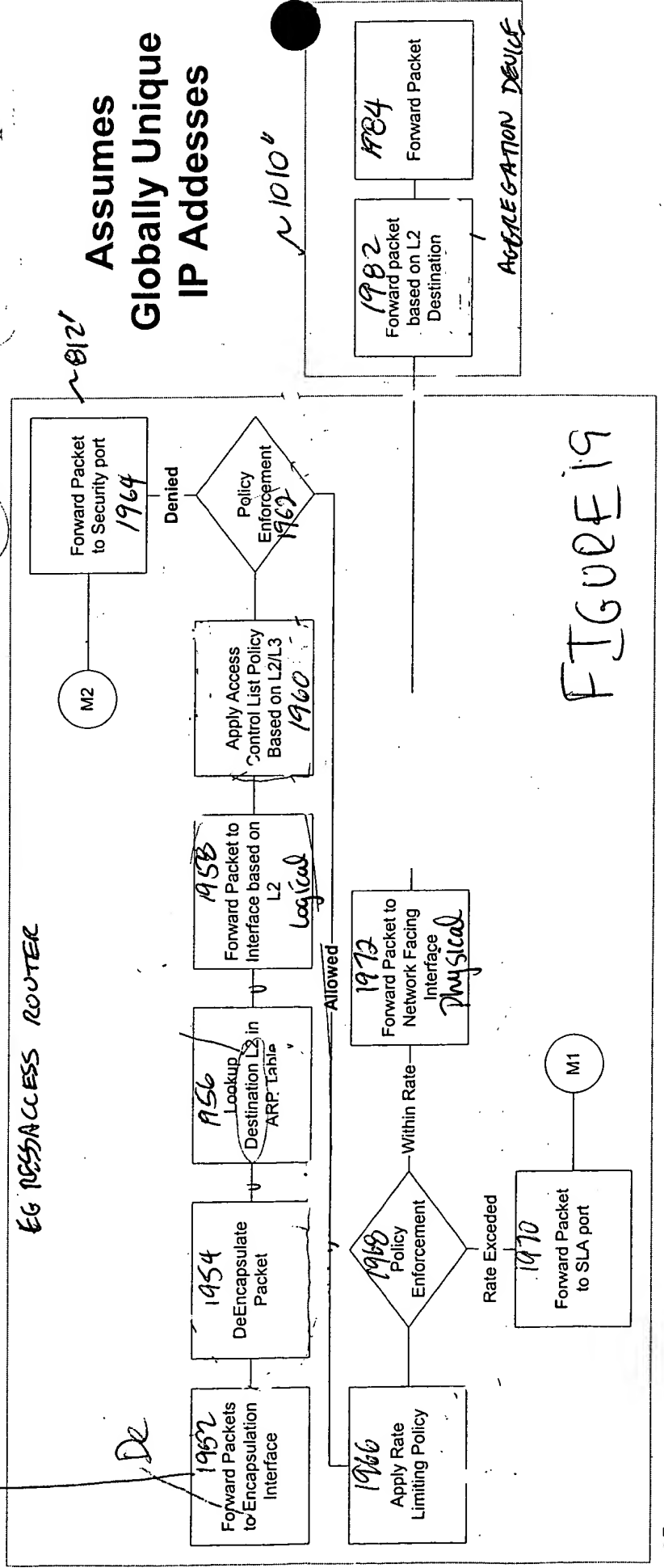
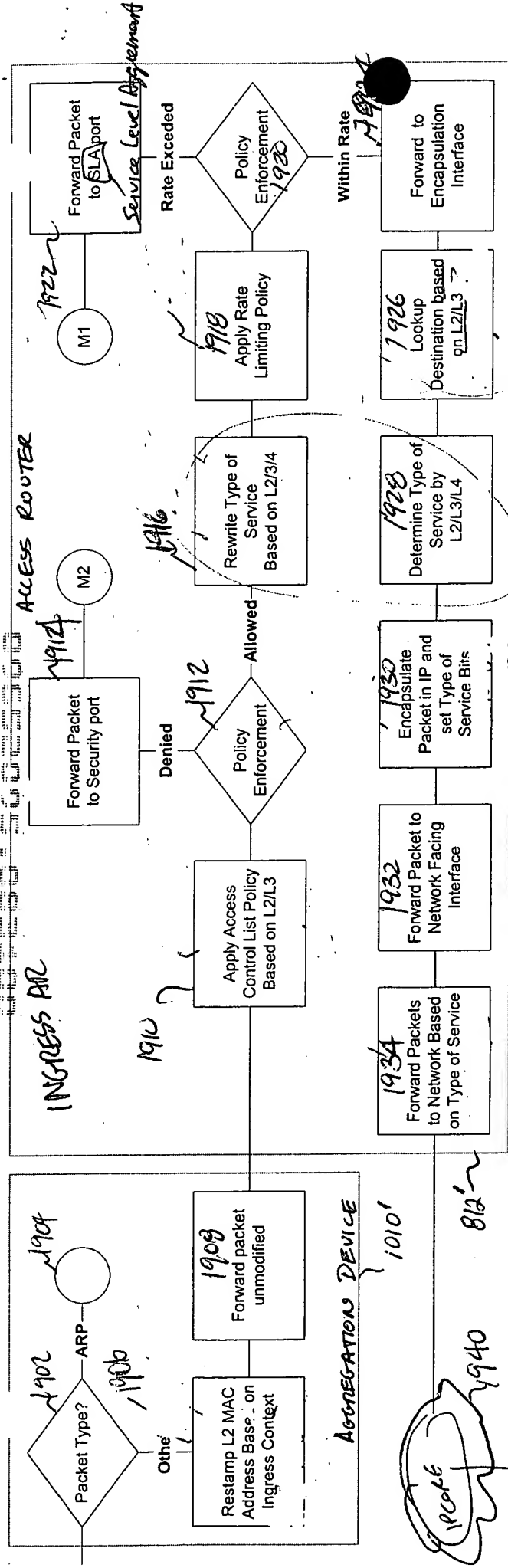
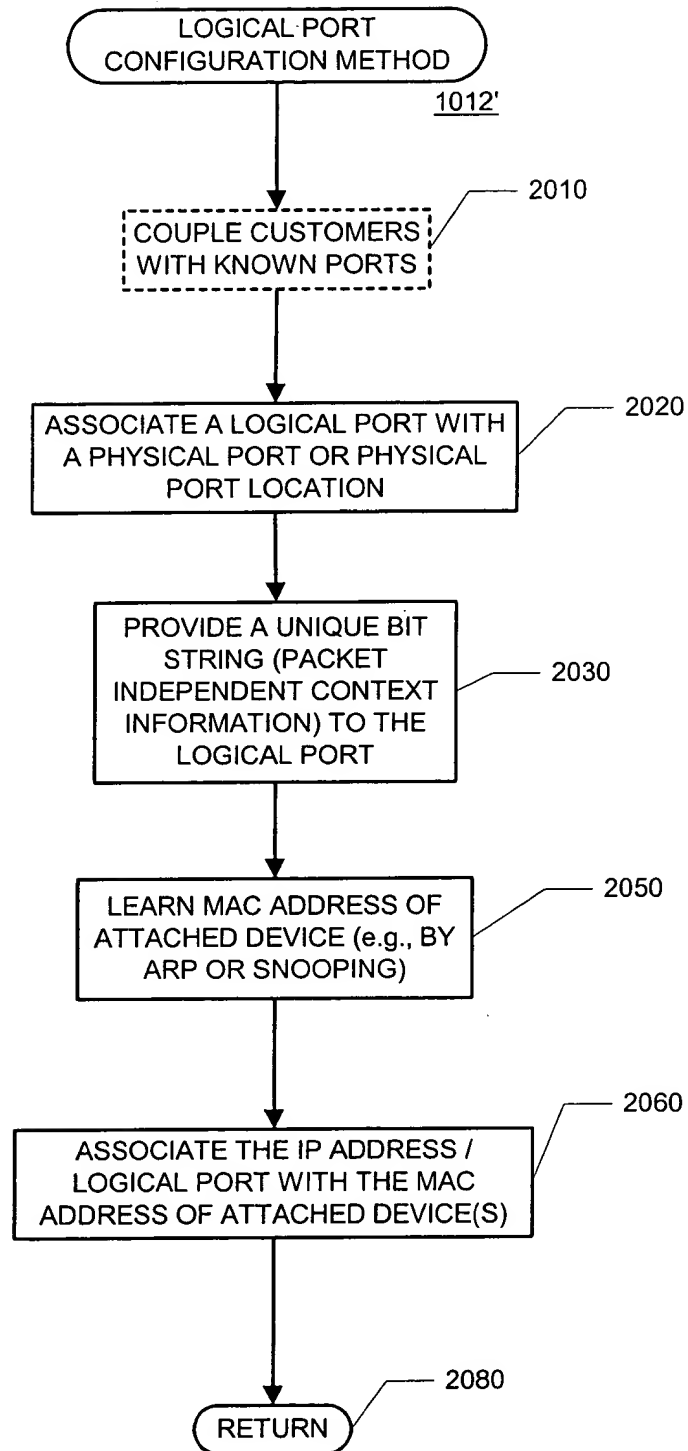


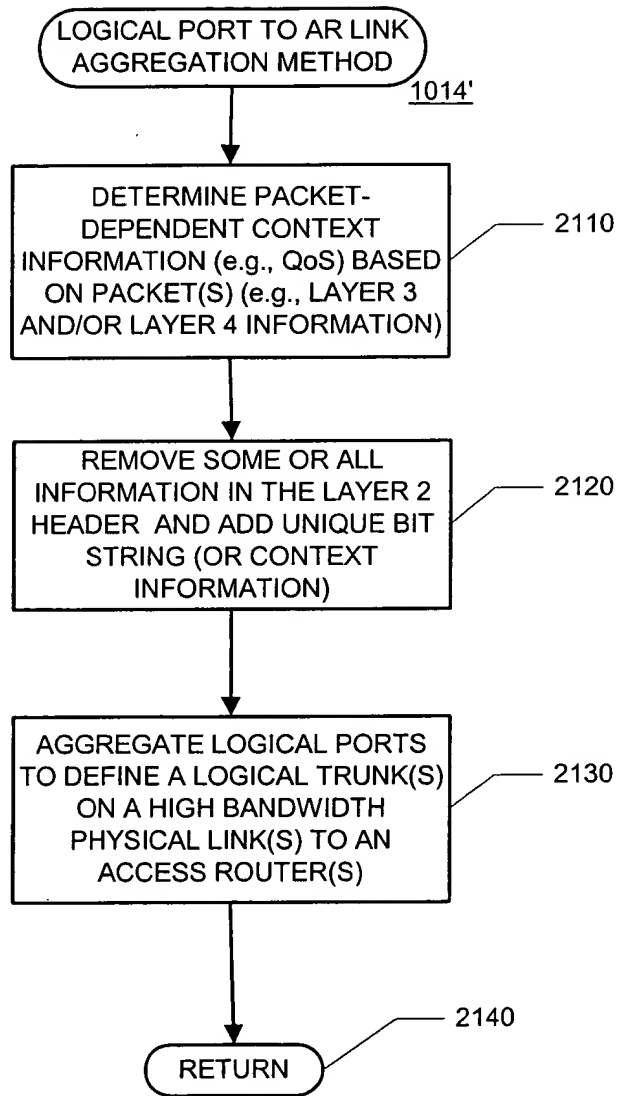
FIGURE 18



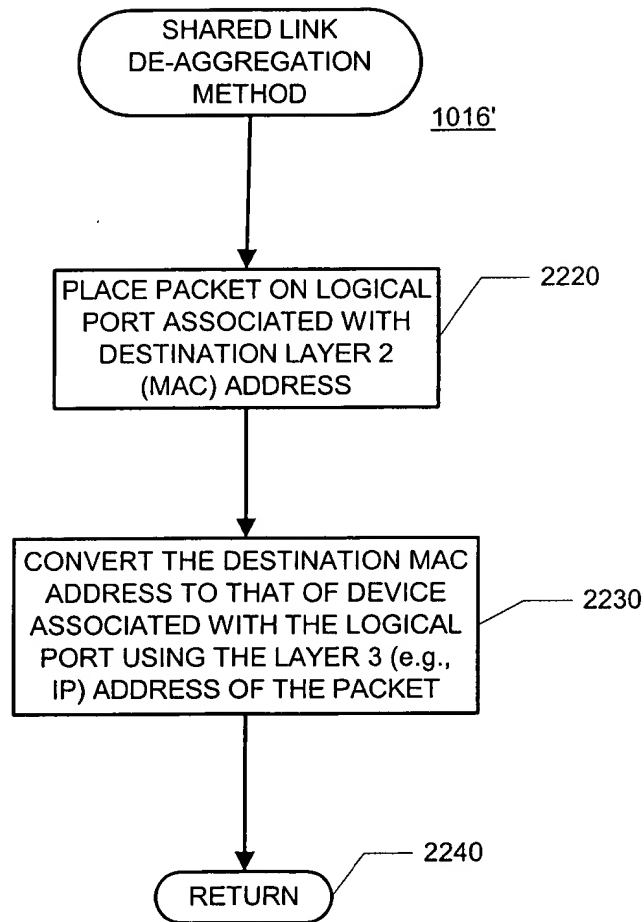


**FIGURE 20**

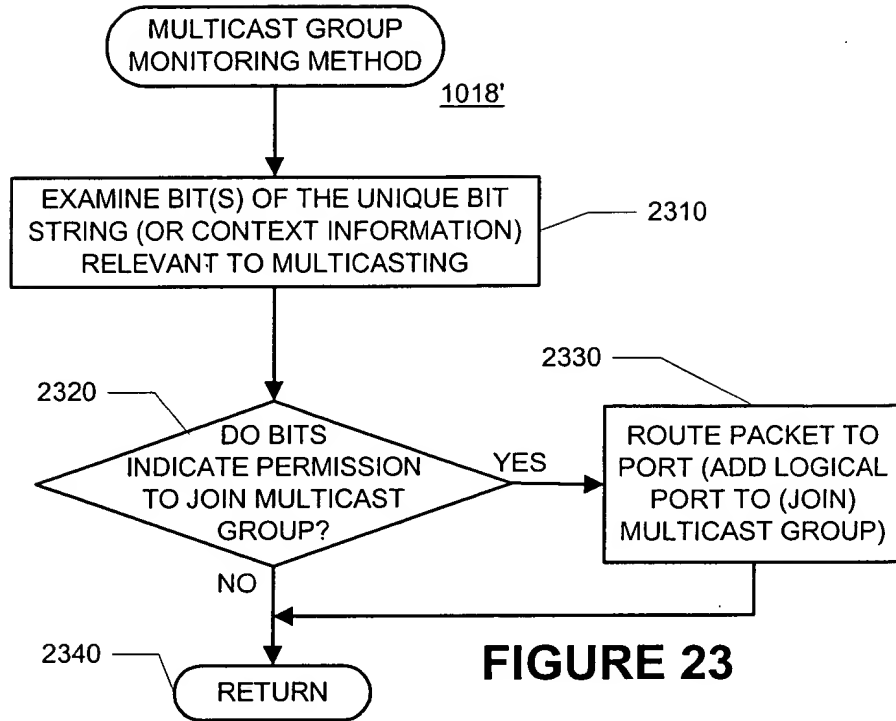
FIG. 21 is a flowchart illustrating a method for logical port aggregation. The method starts with a start node (1014') and proceeds to step 2110: DETERMINE PACKET-DEPENDENT CONTEXT INFORMATION (e.g., QoS) BASED ON PACKET(S) (e.g., LAYER 3 AND/OR LAYER 4 INFORMATION). This is followed by step 2120: REMOVE SOME OR ALL INFORMATION IN THE LAYER 2 HEADER AND ADD UNIQUE BIT STRING (OR CONTEXT INFORMATION). Then, step 2130: AGGREGATE LOGICAL PORTS TO DEFINE A LOGICAL TRUNK(S) ON A HIGH BANDWIDTH PHYSICAL LINK(S) TO AN ACCESS ROUTER(S). The method concludes at step 2140: RETURN.



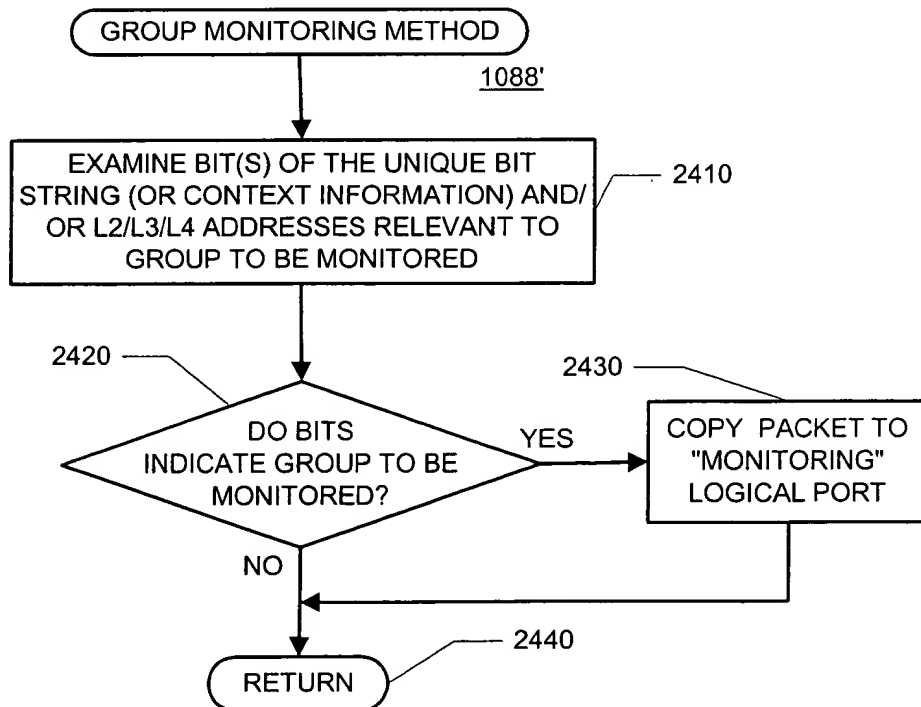
**FIGURE 21**



**FIGURE 22**



**FIGURE 23**



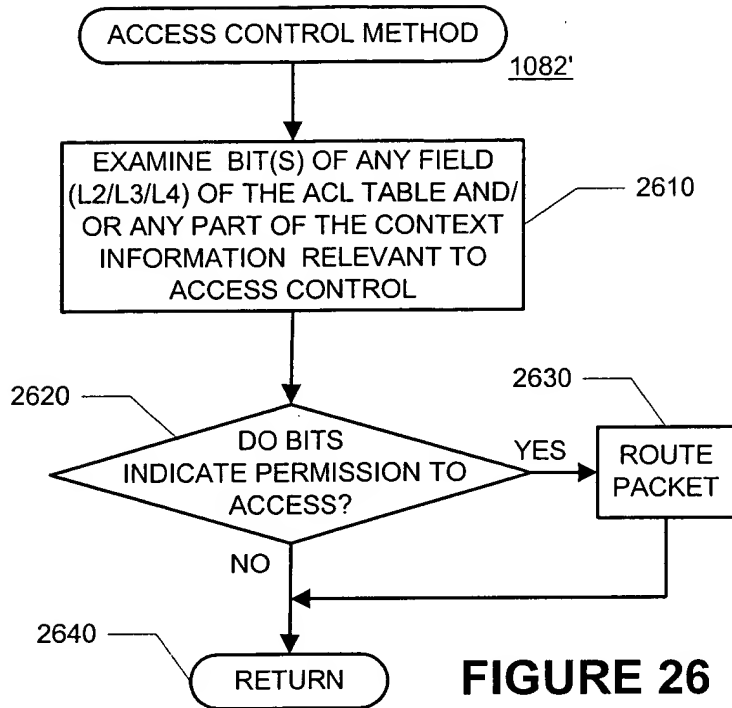
**FIGURE 24**

CONFIDENTIAL

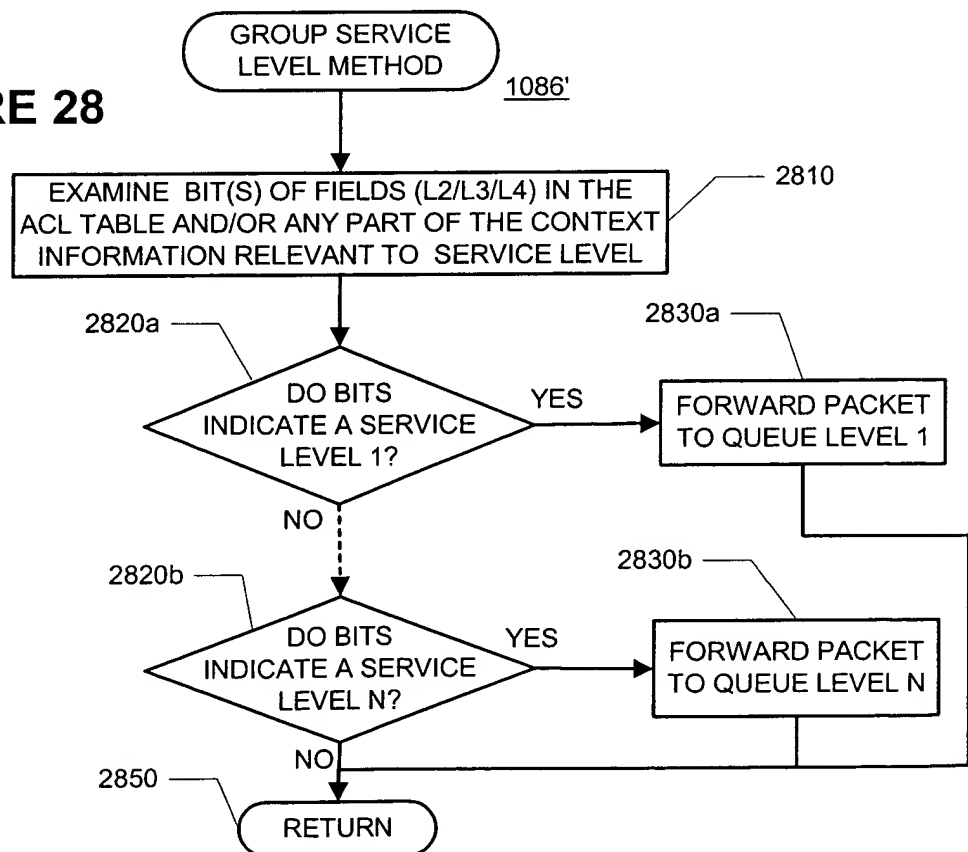
# Layer 2/3 Access Control

2510 { 2520 FIG. 25 2530 2540

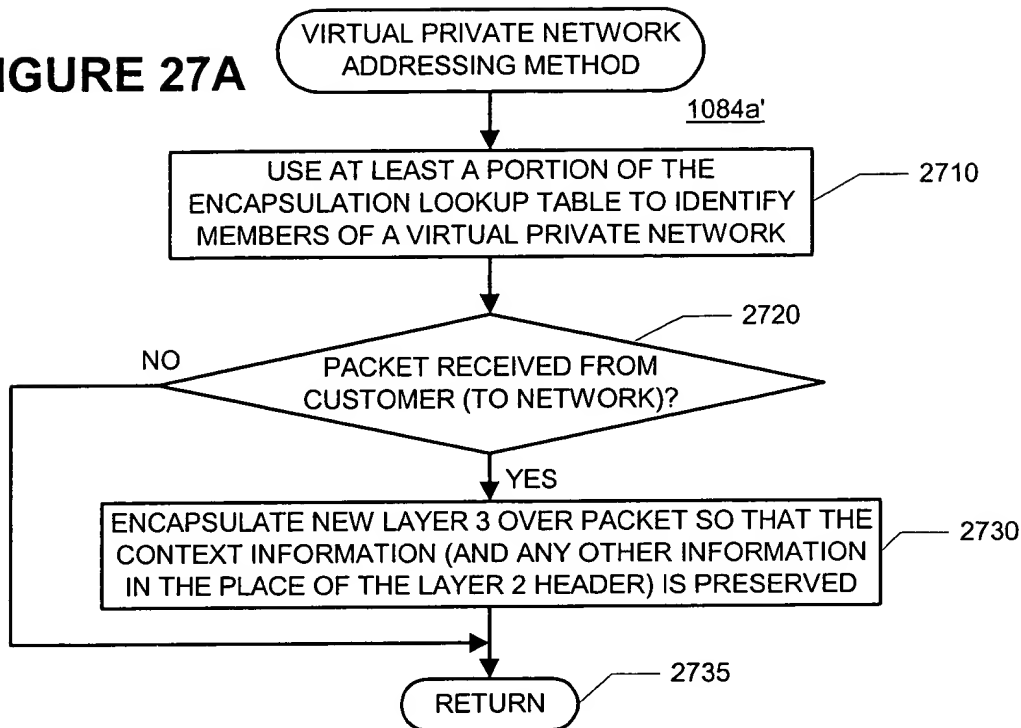
Context	L3 Source Address (3205)	L3 Destination (3215) Address	Action
BA Services			
Service Package #1	ANY	Service Address #11	DENY
Service Package #2	ANY	Service Address #12	DENY
Service Package #3	ANY	Service Address #13	DENY
VRPN - No Internet Access			
Context A	100.100.100.0 /24	100.100.101.0/24	PERMIT
Context A	100.100.100.0 /24	200.200.201.0/24	PERMIT
Context A	100.100.100.0 /24	205.205.205.0/24	PERMIT
Context A	ANY	ANY	DENY
VRPN - With Internet Access			
Context B	150.000.100.0/24	150.100.200.0/24	PERMIT
Context B	150.000.100.0/24	150.100.210.0/24	PERMIT
Context B	150.000.100.0/24	150.100.220.0/24	PERMIT
VRPN/Internet Access			
Context B	900.900.900.0/24	ANY	PERMIT
Internet Access			
Context C	BA Address Space	ANY	PERMIT
Default Deny			
ANY	ANY	ANY	DENY



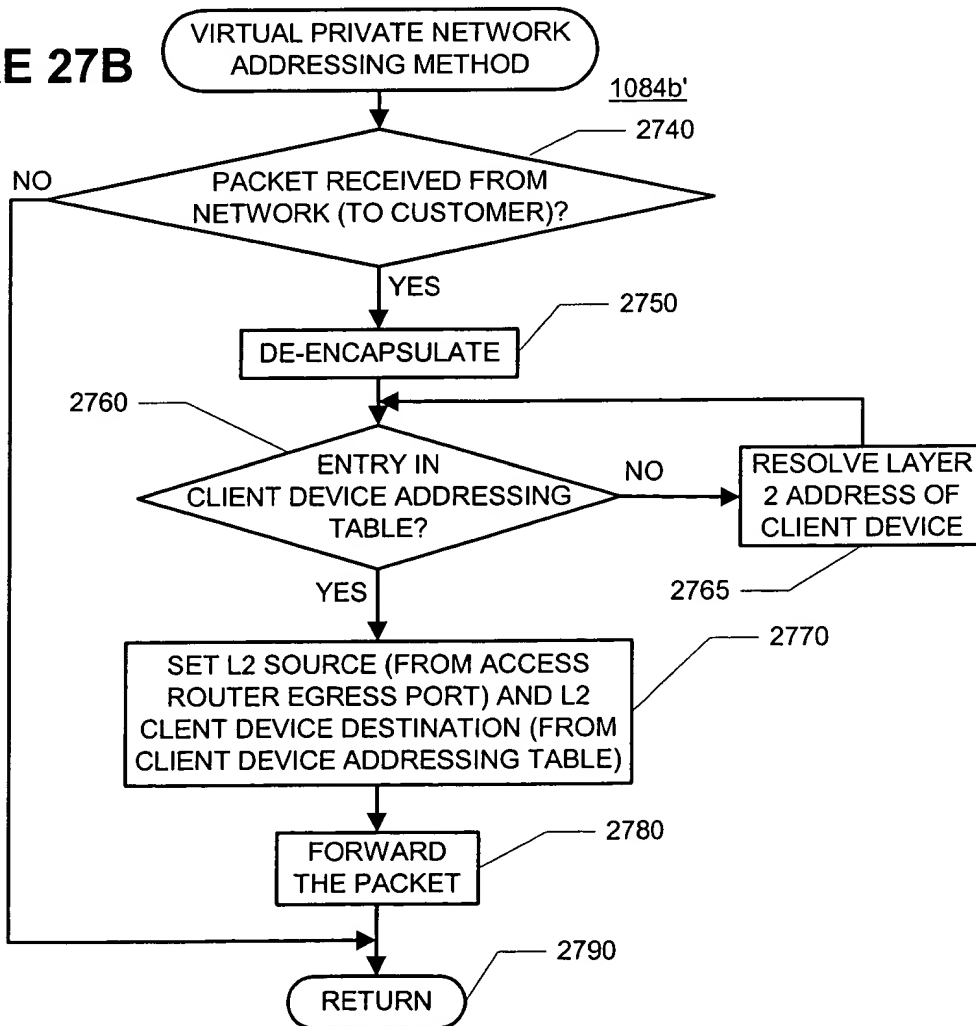
**FIGURE 28**



**FIGURE 27A**



**FIGURE 27B**



LOGICAL PORT	VPN-OUI	VPN-INDEX	CUSTOMER - ID	SERVICE LEVEL	MULTICAST ACL GROUP	QoS PROFILE	VPI	VCI	PVC	ETHERNET PORT
.	.	.	.	.	.	.	.	.	.	.
.	.	.	.	.	.	.	.	.	.	.
.	.	.	.	.	.	.	.	.	.	.

**FIGURE 29**

1060'

LOGICAL PORT	AGG MAC ADDRESS	IP ADDRESS	SUBNET MASK	CLIENT MAC ADDRESS
.	.	.	.	.
.	.	.	.	.
.	.	.	.	.

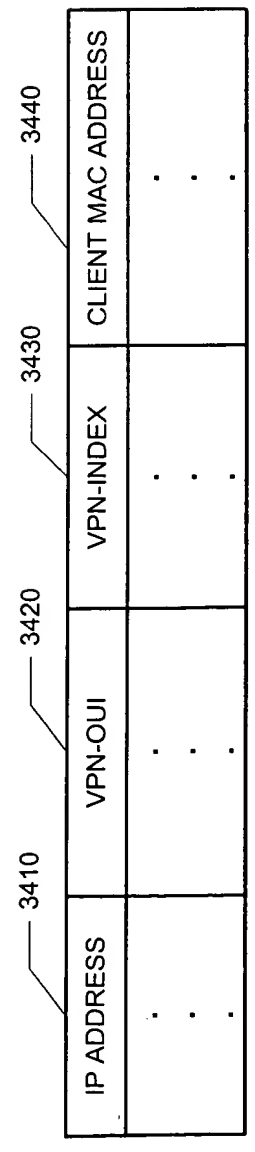
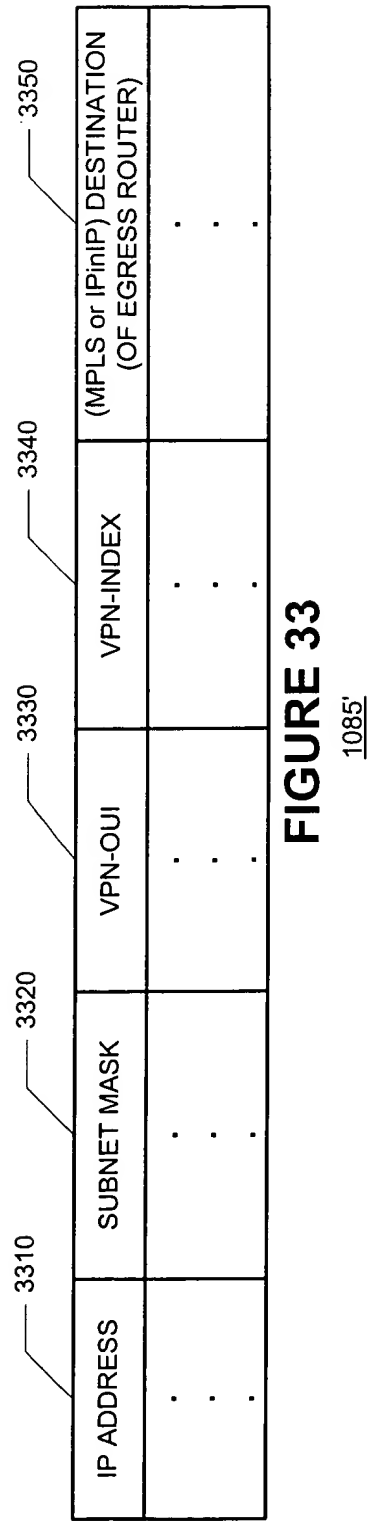
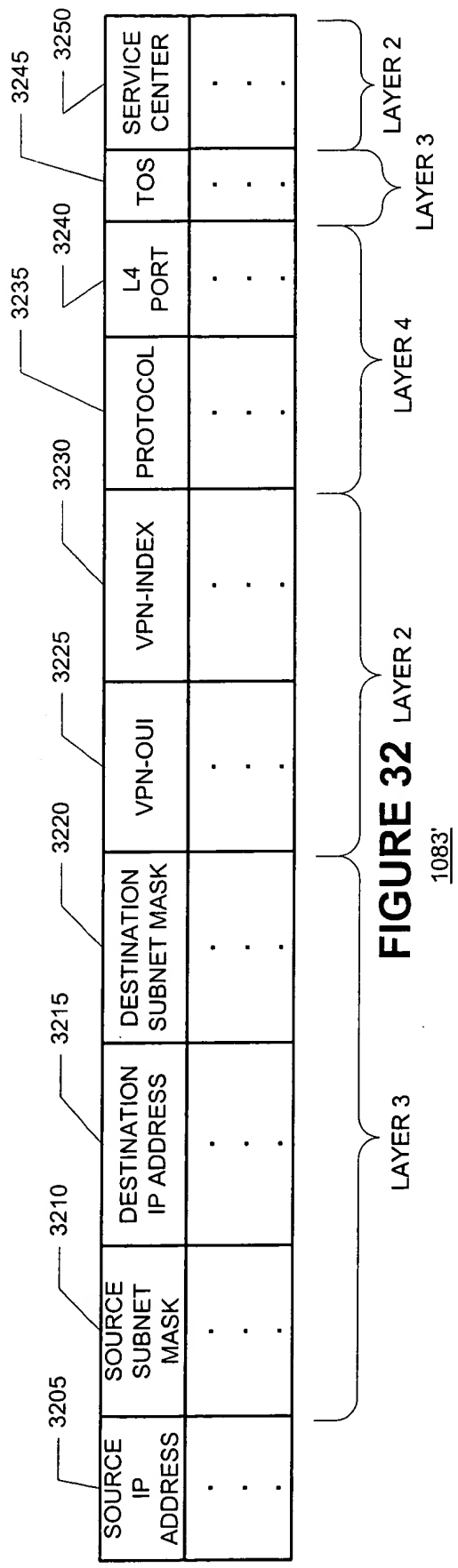
**FIGURE 30**

1060"

MULTICAST ACL GROUP	MULTICAST ADDRESS	SUBNET MASK	VPN-OUI	VPN-INDEX
.	.	.	.	.
.	.	.	.	.
.	.	.	.	.

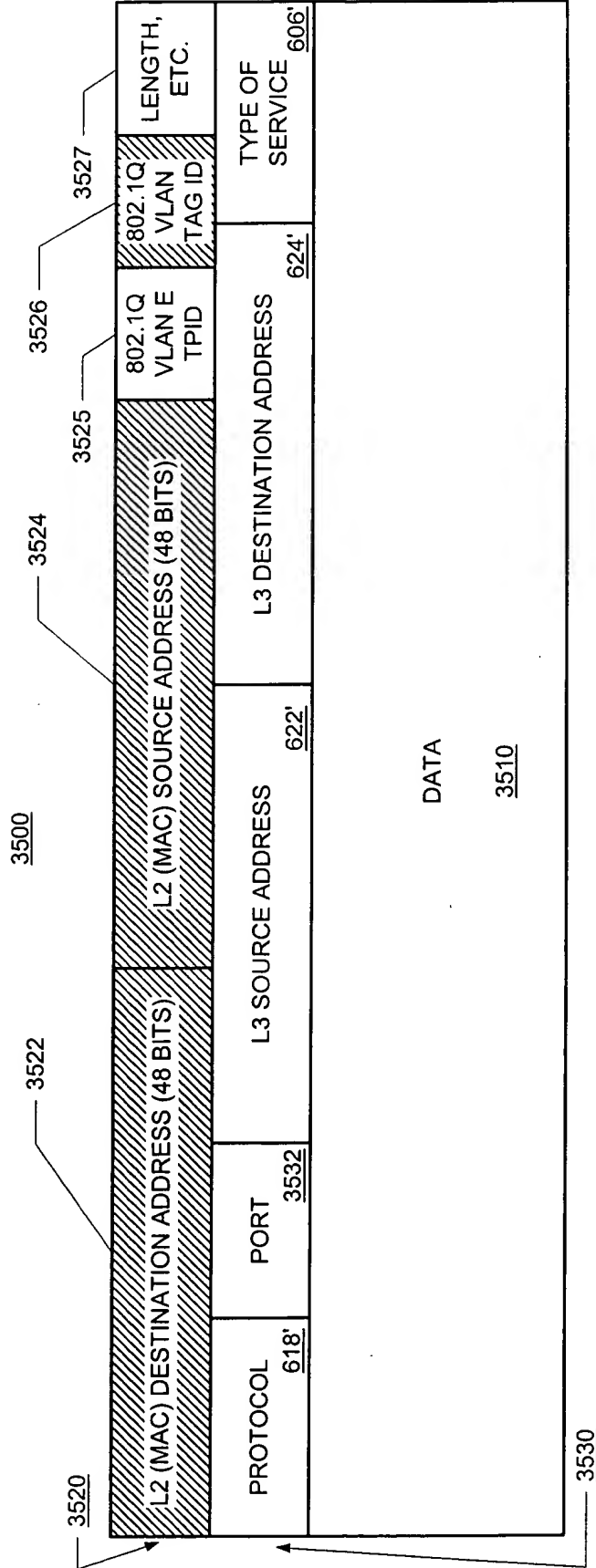
**FIGURE 31**

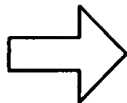
1019'



**FIGURE 34**  
1089'

# FIGURE 35



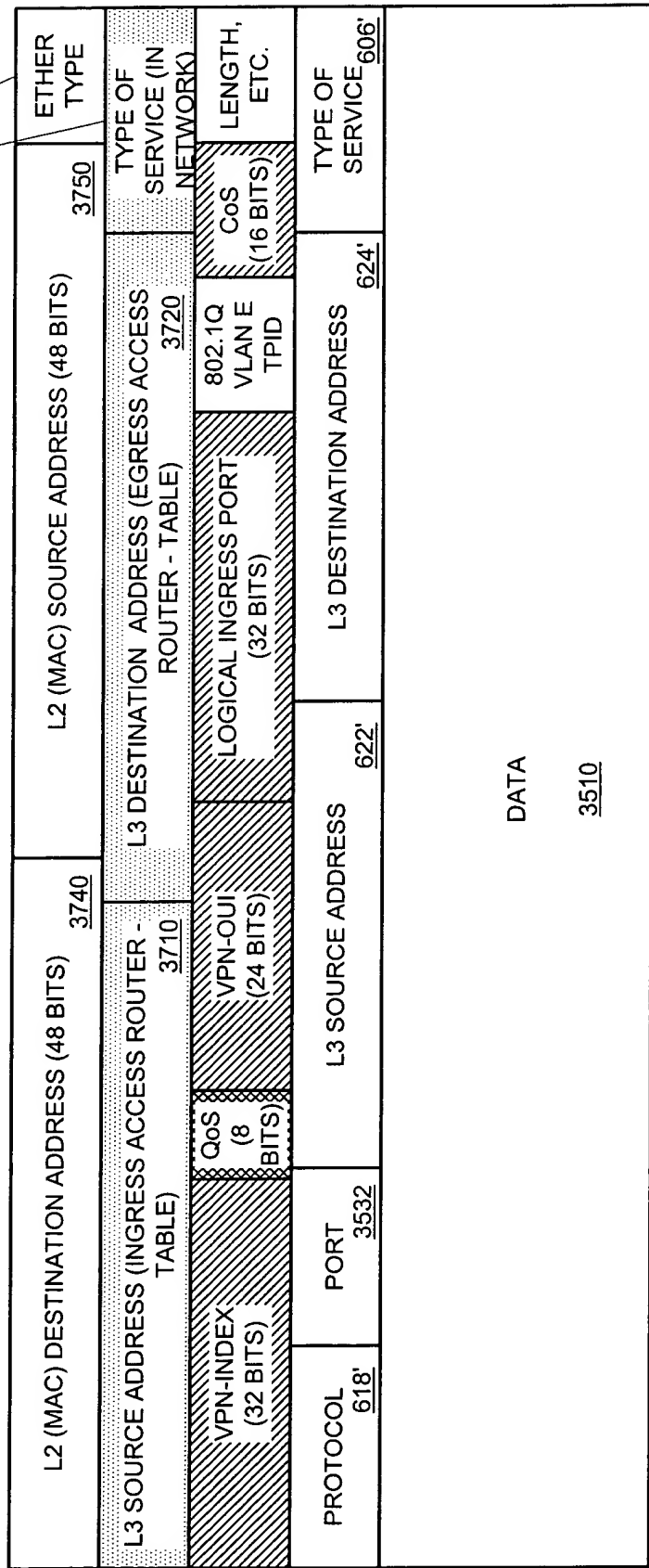
[illegible]

# FIGURE 37

3700

3716

3760



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